

Notice of Allowability

Application No.

09/823,407

Applicant(s)

KANDALA, SRINIVAS

Examiner

Brian D. Nguyen

Art Unit

2661

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 10/28/05.
2. ☒ The allowed claim(s) is/are 1-24.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 20051216.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

BRIAN NGUYEN

PRIMARY EXAMINER

12/19/05

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Michael A Cofield on 12/16/05.

3. The application has been amended as follows:

Claim 1. A communication device comprising:

a physical medium; and

a processor coupled with the physical medium, the processor:

receiving a plurality of reservation request frames from a plurality of respective devices during a Centralized Contention Interval for a wireless communication channel, each reservation request frame including a ~~Media Access Control~~ return address;

decoding a reservation request and the ~~Media Access Control~~ return address from each reservation request frame;

determining at a ~~the~~ Medium Access Control (MAC) sublayer based on the return addresses a schedule of transmission sessions for exchanging data with the respective devices as per the respective reservation requests;

identifying one of the respective devices from the schedule as being ~~the next~~ a first one to reserve the channel;

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encoding the ~~associated Media Access Control~~ return address and a duration of a session window of the identified first ~~next~~ device in a polling frame;

acquiring control of the channel;

transmitting the polling frame over the channel while in a Distribution Coordination Function (DCF) mode; and

exchanging data over the channel from the identified first device during the respective session.

Claim 2. The device of claim 1, the processor further:

identifying another one of the respective devices from the schedule as being the next one;

encoding the ~~associated Media Access Control~~ return address of the next device in a next polling frame;

acquiring control of the channel;

transmitting the next polling frame over the channel while in a Distribution Coordination Function (DCF) mode; and

exchanging data over the channel from the identified next device during the respective session.

Claim 5. A communication device comprising:

a physical medium; and

a processor coupled with the physical medium, the processor:

transmitting a reservation request through a wireless communication channel during a Centralized Contention Interval;

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receiving a polling frame through the channel while in a Distribution Coordination Function (DCF) mode, the polling frame including a ~~Media Access Control~~ return address and a duration of a session window;

decoding the ~~Media Access Control~~ return address and the duration of the session window from the polling frame;

determining whether the ~~Media Access Control~~ return address from the polling frame matches an address of a Medium Access Control (MAC) sublayer of the device; and

if so, transmitting data from the MAC sublayer through the channel.

Claim 6. amended) The device of claim 5, the processor further:

~~decoding a duration of a session window from the polling frame; and~~

~~discontinue~~ discontinuing transmitting data after the session window ends.

Claim 9. An article comprising: a storage medium, said storage medium having stored thereon instructions, that, when executed by at least one device, result in:

receiving a plurality of reservation request frames from a plurality of respective devices during a Centralized Contention Interval for a wireless communication channel, each reservation request frame including a ~~Media Access Control~~ return address;

decoding a reservation request and the ~~Media Access Control~~ return address from each reservation request frame;

determining at ~~a~~ the Medium Access Control (MAC) sublayer based on the return addresses a schedule of transmission sessions for exchanging data with the respective devices as per the respective reservation requests;

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identifying one of the respective devices from the schedule as being ~~the next~~ a first one to reserve the channel;

encoding the ~~associated Media Access Control~~ return address and a duration of a session window of the ~~next~~ identified first device in a polling frame;

acquiring control of the channel;

transmitting the polling frame over the channel while in a Distribution Coordination Function (DCF) mode; and

exchanging data over the channel from the identified first device during the respective session.

Claim 10. The article of claim 9, wherein the instructions further result in:

identifying another one of the respective devices from the schedule as being the next one;

encoding the ~~associated~~ return address of the next device in a next polling frame;

acquiring control of the channel;

transmitting the next polling frame over the channel while in a Distribution Coordination Function (DCF) mode; and

exchanging data over the channel from the identified next device during the respective session.

Claim 13. An article comprising: a storage medium, said storage medium having stored thereon instructions, that, when executed by at least one device, result in:

transmitting a reservation request through a wireless communication channel during a Centralized Contention Interval;

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receiving a polling frame through the channel while in a Distribution Coordination Function (DCF) mode, the polling frame including a ~~Media Access Control~~ return address and a duration of a session window;

decoding a ~~Media Access Control~~ the return address and the duration of the session window from the polling frame;

determining whether the ~~Media Access Control~~ return address matches an address of a Medium Access Control (MAC) sublayer of the device; and

if so, transmitting data from the MAC sublayer through the channel.

Claim 14. The article of claim 13, wherein the instructions further result in:

~~decoding a duration of a session window from the polling frame; and~~

~~discontinue~~ discontinuing transmitting data after the session window ends.

Claim 17. A method comprising:

receiving a plurality of reservation request frames from a plurality of respective devices during a Centralized Contention Interval for a wireless communication channel, each reservation request frame including a ~~Media Access Control~~ return address;

decoding a reservation request and the ~~Media Access Control~~ return address from each reservation request frame;

determining at the ~~a~~ Medium Access Control (MAC) sublayer based on the return addresses a schedule of transmission sessions for exchanging data with the respective devices as per the respective reservation requests;

identifying one of the respective devices from the schedule as being ~~the next~~ a first one to reserve the channel;

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encoding the ~~associated Media Access Control~~ return address and a duration of a session window of the ~~next~~ identified first device in a polling frame;

acquiring control of the channel;

transmitting the polling frame over the channel while in a Distribution Coordination Function (DCF) mode; and

exchanging data over the channel from the identified first device ~~peripheral stations~~ during the respective session.

Claim 18. The method of claim 17, further comprising:

identifying another one of the respective devices from the schedule as being the next one;

encoding the ~~associated Media Access Control~~ return address of the ~~peripheral stations~~ identified next device in a next polling frame;

acquiring control of the channel;

transmitting the next polling frame over the channel while in a Distribution Coordination Function (DCF) mode; and

exchanging data over the channel from the identified next device ~~peripheral stations~~ during the respective session.

Claim 21. A method comprising:

Transmitting, by a communication device, a reservation request through a wireless communication channel during a Centralized Contention Interval;

receiving a polling frame through the channel while in a Distribution Coordination Function (DCF) mode, the polling frame including a ~~Media Access Control~~ return address and a duration of a session window;

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decoding a ~~Media Access Control~~ the return address and the duration of the session window from the polling frame;

determining whether the ~~Media Access Control~~ return address matches an address of a Medium Access Control (MAC) sublayer of the device; and

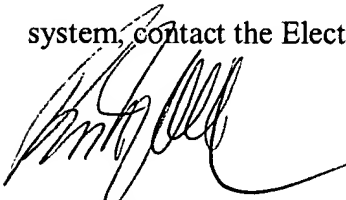
if so, transmitting data from the MAC sublayer through the channel.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian D. Nguyen whose telephone number is (571) 272-3084. The examiner can normally be reached on 7:30-6:00 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on (571) 272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



12/19/05

BRIAN NGUYEN
PRIMARY EXAMINER